	Application No.	Applicant(s)
Notice of Allowability	10/720,654	MUELLER ET AL.
	Examiner	Art Unit
	Sherry L Estremsky	3681
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the application filed November 24, 2003.		
2. The allowed claim(s) is/are 1-25.		
3. The drawings filed on 24 November 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2-12-04, 12-20-04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Date 8), 7. ☐ Examiner's Amendm	e

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-24 are allowed.

2. The following is an examiner's statement of reasons for allowance:

No reference nor combination of references was found which teaches a transfer case including a range unit, a dog clutch operable in two range positions, a mode clutch with a clutch pack and pressure plate moveable between two mode positions, and an actuation mechanism for coordinating movement of the dog clutch and pressure plate including an input gear, and output gear, and a motor driving the input gear, wherein the output gear moves the dog clutch and the pressure plate, and the output gear is rotatable through three ranges variably moving or maintaining the positions of the dog clutch and pressure plate, as required by claims 1 and 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

U. S. Patent 5,199,325 (Reuter et al.) April 1993 - discloses a transfer case including a range unit with a dog clutch and a mode clutch with a clutch pack and a pressure plate. The dog clutch and pressure plate are each moved by a spiral gear train driven by a motor.

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U. S. Patent 6,645,109 (Williams et al.) November 2003 and U. S. Patent 6,824,487 (Williams et al.) November 2004 each disclose a transfer case with a differential, a range unit, a dog clutch operable in two ranges, a mode clutch with a clutch pack and pressure plate, and an actuation mechanism for coordinating movement of the dog clutch and pressure plate, including a geartrain with an input gear and output gear and a motor driving the input gear. The output gear moves the pressure plate, but the motor output shaft moves the dog clutch independently of the geartrain.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherry L Estremsky whose telephone number is (703) 308-2164. The examiner can normally be reached on Tuesday and Friday from 7:30 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (703) 308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SHERRY ESTREMSKY PRIMARY EXAMINER AU3681 March 18,2005